



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

*** *** ***



AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area 366-0123

Case Vehicle (A): 1999 Pontiac
 Type: Grand Am, 2-door coupe
 Driver: 28-year-old male
 CDC: 12-FREN-5, 12-LDES-2

SITUATION

(Slide 1) Case vehicle (A) was traveling south in the southbound lane of a straight section of a dry, asphalt, two-lane roadway, (slides 2, 3) with a speed limit of 89 kph (55 mph). Case vehicle (A) drifted across the centerline, departed the east shoulder of the roadway, and traveled down a shallow embankment. The left side of case vehicle (A) sideswiped a clump of trees before case vehicle (A) struck a tree with its right-front bumper corner. Case vehicle (A) came to rest facing south-southeast. The driver of case vehicle (A) had a blood alcohol level of .16 percent.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

(Slide 4) Damage to case vehicle (A) was severe. The direct-damage length was 37 cm and began 10-cm in board of the right-front bumper corner. The maximum crush to the bumper was 116 cm and occurred at the right-front bumper corner. The left wheelbase was extended 13 cm, and the right wheelbase was reduced 42 cm. The maximum crush above the sill associated with the sideswipe impact was estimated to be 14 cm.

Using the WinSMASH accident-reconstruction program and (slides 5, 6, 7, 8) c-values for case vehicle (A), the following impact severity was calculated:

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	71 (44)	-71 (-44)	0 (0)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

(Slides 9, 10, 11) The front bumper, both headlight assemblies, the grille, the radiator, the right fender, and the right-front wheel and strut were damaged. The hood was crushed, and the hood

latch was jammed. Both hood hinges were damaged, but did not separate. The rear edge of the hood was elevated and it contacted the windshield, but did not penetrate it. (Slide 12) The windshield was holed from the bottom right corner up to approximately two-thirds the height of the right A-pillar. Both doors remained closed during the crash, but were sprung and would not close post-crash.

Interior

(Slides 13, 14, 15, 16, 17) This vehicle was equipped with both steering-wheel and passenger frontal-impact airbags, which deployed during the frontal impact. No damage was noted to the airbag skins or (slides 18, 19, 20, 21) to the module doors/flaps. (Slide 22) The steering-wheel rim was not deformed and there was no deformation of the steering-wheel spokes. The steering column was rotated up and to the right. (Slides 23, 24, 25) The following intrusions were noted and measured.

Location	Component	Distance (cm)	Direction
left front	toe pan	35	to rear
left front	instrument panel	10	to rear
left front	door	14	to right
left front	steering column	3	to rear
center front	instrument panel	24	to rear
right front	instrument panel	21	to rear
right front	toe pan	54	to rear

(Slides 26, 27, 28, 29, 30) The right side of the roof structure, the right side of the windshield header, and the right upper and lower A-pillar were damaged due to buckling of the vehicle body. The upper, mid and lower instrument panels, the upper and mid climate control vents, the radio, the ash tray, the parking brake lever, the glove box door, and the foot controls were damaged due to intrusion. The rearview mirror, the vertical console, the climate control knobs, the center console, and the transmission selector lever were damaged from driver contact. The left-front seat was found in the full rear position.

OCCUPANT INJURIES AND KINEMATICS

The 6-ft, 0-in, 230-lb, 28-year-old male driver (slides 31, 32) was not wearing the available three-point belt, and the steering-wheel airbag deployed. On impact, he moved forward and to

the right, skipped off the airbag, and (slides 33, 34, 35, 36, 37) contacted the vertical console with his torso and right arm. He sustained a fracture and a contusion to the left thumb, probably from contact with the steering-wheel rim, but possibly from contact with the windshield. He sustained an abrasion to the right side of his chest, probably from contact with the airbag, but possibly from contact with the vertical console. He sustained a comminuted fracture of the right humeral neck with posterior humeral head subluxation, and an abrasion to the right posterior forearm, probably from contact with the vertical console. (Slide 38) He sustained a contusion to the left lateral thigh, probably from contact with the interior surface of the left door during the sideswipe. (Slides 39, 40, 41, 42) He sustained an intertrochanteric fracture of the right femur and an open transverse fracture of the mid and distal 1/3rd of the right femoral shaft due to axial loading from contact with the knee bolster. He also sustained abrasions over both tibias, probably from contact with the knee bolster. (Slide 43) The rearview mirror was found off of its mounting plate, but no injuries were reported that could be associated with it.

The following table and (slide 44) attached drawing summarize the injuries sustained by the driver.

Occupant: Driver
 Restraints: 3-point belt not worn; airbag deployed

Age: 28 years
 Stature: 183 cm (6 ft, 0 in)

Gender: Male
 Mass: 104 kg (230 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Fracture, left thumb	1		Steering-wheel rim	Windshield
Contusion, left thumb	1		Steering-wheel rim	Windshield
Abrasion, right side of chest	1		Airbag	Vertical console
Fracture, comminuted, right humeral neck with posterior humeral head subluxation	3		Vertical console	
Abrasion, right posterior forearm	1		Vertical console	
Contusion, left lateral thigh	1		Interior surface of door (during first impact)	
Intertrochanteric fracture, right femur	3		Knee bolster	
Fracture, transverse, open, of the mid and distal 1/3 rd of the right femoral shaft	3		Knee bolster	
Abrasions, left tibia	1		Knee bolster	
Abrasions, right tibia	1		Knee bolster	
<u>Maximum A.I.S. Level</u>	<u>3</u>			
<u>Injury Severity Score</u>	<u>10</u>			

Duplicate columns 1-8
from the previous card.

Module G 1 Format 0 2
9 10 11 12

GENERAL INFORMATION GI-1

TIME

DATE OF COLLISION

 / /
m m d d y y y y

HOUR OF COLLISION

(24 HOUR CLOCK)

21 24

LOCATION

STATE:

STATE FIPS CODE

25 28

AREA

- (1) URBAN
(2) RURAL
(9) UNKNOWN

27

ENVIRONMENTAL CONDITIONS

LIMITED-ACCESS HIGHWAY

- (0) NO
(1) YES
(9) UNKNOWN

28

ROAD, TOTAL TRAFFIC LANES
(FOR CASE VEHICLE)

- (1) 1-LANE
(2) 2-LANES
(3) 3-LANES
(4) 4 OR MORE LANES
(5) DIVIDED, 4 OR MORE LANES
(6) PARKING LOT/DRIVEWAY
(7) OTHER:
(9) UNKNOWN

29

INTERSECTING RD, TOTAL LANES

CHOOSE FROM ABOVE LIST, OR

- (8) NOT APPLICABLE

30

TYPE OF ROAD SURFACE

- (1) ASPHALT
(2) CONCRETE
(3) GRAVEL
(4) MORE THAN ONE (CIRCLE EACH)
(7) OTHER:
(9) UNKNOWN

31

ROAD DEFECTS

- (0) NO
(1) YES
(9) UNKNOWN

32

ENVIRONMENTAL CONDITIONS

CONSTRUCTION ZONE

- (0) NO
(1) YES
(9) UNKNOWN

33

ROAD ALIGNMENT
VERTICAL PLANE

- (1) LEVEL
(2) CREST OF HILL
(3) SLOPE (2%)
(4) BOTTOM OF HILL
(9) UNKNOWN

34

ROAD ALIGNMENT
HORIZONTAL PLANE

- (1) STRAIGHT
(2) CURVE
(3) T - SHAPED
(4) Y - SHAPED
(7) OTHER:
(9) UNKNOWN

35

SURFACE COVERING

- (10) DRY

(21) WATER - DAMP
(22) WATER - WET
(23) WATER - PUDDLED
(29) WATER - AMOUNT UNKNOWN

(31) SNOW - LOOSE
(32) SNOW - PACKED
(39) SNOW - CONDITION UNKNOWN

(41) ICE
(51) SLUSH
(61) SPILLED GRAVEL
(71) OTHER:
(99) UNKNOWN

36 37

VISIBILITY LIMITATION
(FOR CASE VEHICLE)

- (0) NONE
(1) CLOUDY/DARK
(2) FOG
(3) SMOKE
(4) WINDSHIELD CONDITION
(5) GLARE
(6) RAIN
(7) OTHER:
(8) ICE/SNOW
(9) UNKNOWN

38

VISIBILITY OBSTRUCTION
(FOR CASE VEHICLE)

- (0) NONE
(1) BUILDING
(2) SIGN
(3) VEGETATION (E.G. BUSHES, SHRUBS)
(4) TREE
(5) HILL OR CURVE IN ROAD
(6) VEHICLE IN TRANSPORT
(7) OTHER:
(8) PARKED VEHICLE
(9) UNKNOWN

39

ENVIRONMENTAL CONDITIONS

SPEED LIMIT

- | | | |
|-----|-----------------|----------|
| (0) | 5-45 km/h | 5-25 mph |
| (1) | 46-55 | 30 |
| (2) | 56-60 | 35 |
| (3) | 61-70 | 40 |
| (4) | 71-79 | 45 |
| (5) | 80-85 | 50 |
| (6) | 86-90 | 55 |
| (7) | 91-105 | 60 |
| (8) | OVER 105 | 65 |
| (9) | UNKNOWN | |

PRECIPITATION

- (0) NONE
(1) RAIN
(2) SNOW
(3) HAIL
(4) FREEZING RAIN/SLEET
(7) OTHER: _____
(9) UNKNOWN

RATE OF PRECIPITATION

- (1) LIGHT/MIST
(2) MODERATE
(3) HEAVY
(8) NOT APPLICABLE
(9) UNKNOWN

TEMPERATURE

- (0) BELOW -15° C BELOW 5° F
(1) -15 TO -6 5 TO 22
(2) -5 TO -1 23 TO 31
(3) 0 TO 2 32 TO 36
(4) 3 TO 5 37 TO 41
(5) 6 TO 15 42 TO 59
(6) 16 TO 25 60 TO 77
(7) 26 TO 35 78 TO 95
(8) OVER 35 OVER 96
(9) UNKNOWN

CROSSWIND

- (0) NONE
(1) LIGHT
(2) STRONG
(3) GUSTY & STRONG
(9) UNKNOWN

LIGHT CONDITIONS

- (1) DAYLIGHT
- (2) DAWN
- (3) DUSK
- (4) DARK, LIGHTED
- (5) DARK, UNLIGHTED
- (6) DARK, UNKNOWN IF LIGHTED
- (9) UNKNOWN

MECHANICAL MALFUNCTION

WAS THERE MENTION
OF A MECHANICAL MALFUNCTION
IN CASE VEHICLE

- (0) NO
(1) YES
(2) YES, DID NOT CONTRIBUTE
TO ACCIDENT
(9) UNKNOWN

**THE FOLLOWING SECTION SHOULD BE FILLED
OUT IF A MECHANICAL MALFUNCTION IS
RECOGNIZED OR SUSPECTED.**

**CIRCLE ITEMS INVOLVED. SUPPORT ANY
ITEMS CIRCLED WITH COMMENTS.**

BRAKE SYSTEM DRIVER CONTROLS

EXHAUST SYSTEM POWER TRAIN

STEERING SYSTEM FUEL SYSTEM

SUSPENSION SYSTEM VISIBILITY ITEMS

ELECTRICAL SYSTEM	TIRES
<p>1. Check battery voltage and electrolyte level.</p> <p>2. Inspect alternator belt for proper tension.</p> <p>3. Test alternator output.</p> <p>4. Check for loose or corroded electrical connections.</p> <p>5. Inspect fuses and relays.</p>	<p>1. Check tire pressure.</p> <p>2. Inspect tire tread for wear.</p> <p>3. Check for proper wheel alignment.</p> <p>4. Inspect for tire damage or foreign objects.</p>

THROTTLE CONTROLS UNKNOWN

OTHER: _____

COMMENTS: _____

GENERAL INFORMATION GI-3

CRASH DETAILS

CASE VEHICLE AND OBJECT

- (0) NO
(1) YES
(9) UNKNOWN

1
47

CASE VEHICLE ROLLOVER

- (0) NO ROLLOVER
(1) YES, FIRST EVENT
(2) YES, SUBSEQUENT EVENT
(3) YES, SEQUENCE UNKNOWN
(9) UNKNOWN

0
48

CASE VEHICLE RAN OFF ROADWAY
(BEFORE FIRST IMPACT)

- (0) NO
(1) YES
(9) UNKNOWN

1
49

MOVING CASE VEHICLE AND
CONTACTED MOVING VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

0
50

CASE VEHICLE AND
CONTACTED STOPPED VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

0
51

STOPPED CASE VEHICLE AND
CONTACTED VEHICLE

- (0) NO
(1) YES
(9) UNKNOWN

0
52

TOTAL NUMBER
OF VEHICLES CONTACTED
BY CASE VEHICLE IN CRASH

- (8) 8 OR MORE
(9) UNKNOWN

0
53

ANY FIRE IN THIS CRASH
(NOT JUST CASE VEHICLE)

- (0) NO
(1) YES
(9) UNKNOWN

0
54

HIGHEST POLICE INJURY
SEVERITY CODE IN CRASH
(NOT JUST CASE VEHICLE)

- (0) O - NO INJURY
(1) C - POSSIBLE INJURY
(2) B - NON-INCAPACITATING INJURY
(3) A - INCAPACITATING INJURY
(4) K - FATAL
(5) INJURED, SEVERITY UNKNOWN
(6) DIED PRIOR TO ACCIDENT
(7) NON-FATAL INJURY
SEVERITY UNKNOWN
(9) UNKNOWN

3
55

DRIVER IMPAIRMENT

DRIVER ALCOHOL INVOLVEMENT
(CASE VEHICLE)

- (0) NONE
(1) YES
(9) UNKNOWN/NOT REPORTED/
NO DRIVER

1
56

DRIVER ALCOHOL BAC
(CASE VEHICLE)

- (80) NO TEST
(90) CHEMICAL TESTS, NO RESULTS
(95) AUTOPSY, NO RESULTS
(99) UNKNOWN

16
57 58

WAS THERE MENTION OF DRIVER
IMPAIRMENT FOR CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

0
59

LIST IMPAIRMENTS MENTIONED:

POST - CRASH DETAIL

MANNER CASE VEHICLE
LEFT SCENE

- (1) DRIVEN
(2) TOWED DUE TO DAMAGE
(3) TOWED, NOT DUE TO DAMAGE
(4) TOWED, REASON UNKNOWN
(9) UNKNOWN

2
60

ACCIDENT SCHEMATIC

ACCIDENT DESCRIPTION: Case vehicle (A) was traveling south in the southbound lane of a 2-lane roadway. Case vehicle (A) drifted across the center line, departed the roadway, and traveled down a shallow embankment. The left side of Case vehicle (A) sideswiped a clump of trees before Case vehicle (A) struck a tree with its right-front bumper. Case vehicle (A) came to rest facing south-south east. The driver of Case vehicle (A) had a blood alcohol level of .16 percent

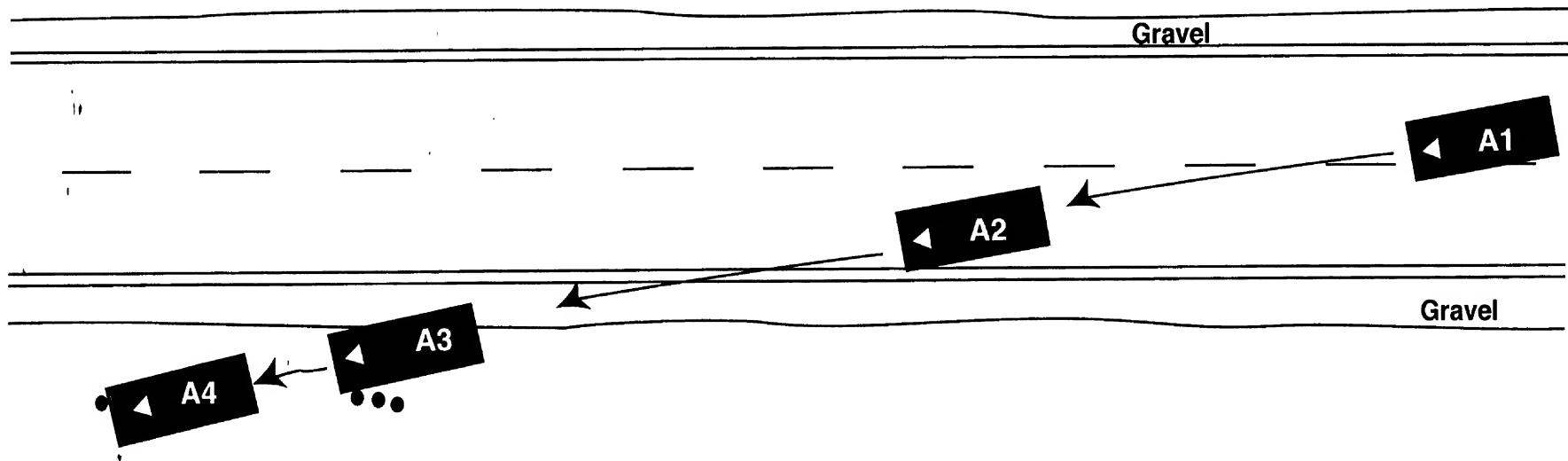
CASE VEHICLE (A): 1999 Pontiac Grand Am
OTHER VEHICLE (B): N/A
THIRD VEHICLE (C): N/A

G-4



NORTH

Speed limit 55 mph



Duplicate columns 1-8
from the previous card.Module O V Format 0 4
9 10 11 12

OTHER VEHICLE OV-1

MAKE: _____

CARGO: _____

MODEL: _____

VIN

13

29

MANUFAC/BODY CODE

30

34

MAKE/MODEL CODE

38

MODEL YEAR

39

42

VEHICLE MASS (kg)

43

48

IF SEPARATE REPORT WAS MADE,
GIVE VEHICLE NUMBERNUMBER OF OCCUPANTS
(ENTER 9'S IF UNKNOWN)

51

TRAVELING SPEED (km/h)

54

- (000) PARKED OR STOPPED
 (995) JUST STARTING UP
 (996) BACKING UP
 (997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
 (998) SPEED EXCESSIVE (BUT UNKNOWN)
 (999) UNKNOWN

HIGHEST POLICE INJURY SEVERITY
CODE FOR THIS VEHICLE

- (0) O - NO INJURY
 (1) C - POSSIBLE INJURY
 (2) B - NON-INCAPACITATING INJURY
 (3) A - INCAPACITATING INJURY
 (4) K - FATAL
 (5) INJURED, SEVERITY UNKNOWN
 (6) DIED PRIOR TO ACCIDENT
 (7) NON-FATAL INJURY
 SEVERITY UNKNOWN
 (8) UNOCCUPIED VEHICLE
 (NOT APPLICABLE)
 (9) UNKNOWN

55

VEHICLE TYPE

PASSENGER VEHICLE

- (02) LARGE
 (03) LIMOUSINE
 (17) PICKUP CAR
 (20) UNKNOWN PASSENGER VEHICLE BODY
 (24) SUB-MINI
 (25) MINI
 (26) SUB-COMPACT
 (27) COMPACT
 (28) INTERMEDIATE
 (29) FULL

56

57

MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
E.G. JEEP, BRONCO)
 (15) LARGE UTILITY (WHEELBASE MORE THAN 107",
E.G. PANEL TRUCK, SUBURBAN)
 (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
 (17) PICKUP CAR WITH CANOPY/SHELL COVER
 (21) MOTOR HOME
 (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
 (23) PICKUP CAR WITH SLIDE-IN CAMPER
 (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) VAN
 (12) PICKUP TRUCK
 (13) UNKNOWN LIGHT TRUCK
 (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
 (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
 (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
 (30) UNKNOWN TRUCK TYPE
 (31) CHASSIS-MOUNTED CAMPER
 (33) DELIVERY VAN (WALK-IN)
 (34) STRAIGHT TRUCK
 (35) TRUCK-TRACTOR (BOBTAIL)
 (36) CHASSIS-CAB
 (37) UNKNOWN HEAVY TRUCK
 (38) TRACTOR & SEMI-TRAILER (SEMI)
 (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
 (41) SCHOOL BUS
 (42) INTERCITY BUS (BETWEEN CITIES)
 (43) TRANSIT BUS (INTRACITY)
 (44) STREETCAR (ON TRACKS)

- (68) TRAIN (CARS)
 (69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)

(999) UNKNOWN

58 59 60

Duplicate columns 1-8
from the previous card.

Module 0 V Format 0 2
9 10 11 12

OTHER VEHICLE OV-2

ORIGINAL SPECIFICATIONS

Wheelbase	_____ cm	Front Overhang	_____ cm
		22 _____ 24	
Curb Weight	_____ kg	Rear Overhang	_____ cm
		25 _____ 27	
Average Track Width	_____ cm	Undeformed End Width (UEW)	_____ cm
13 _____ 15		28 _____ 30	
Overall Length	_____ cm	Engine Displacement	_____ L
16 _____ 18		31 _____ 32	
Overall Width (OAW)	_____ cm	Engine: # of Cylinders	_____
19 _____ 21		33 _____ 34	

VEHICLE DAMAGE

N/A

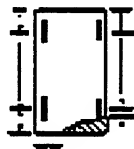
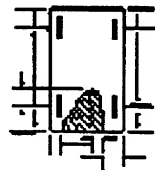
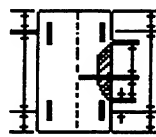

FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) _____ cm
35 _____ 37

Front-End Overlap (Percent) = $\frac{DDL}{UEW}$ _____ %
38 39

Vehicle Overlap (Percent) = $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$ _____ %
40 41

VEHICLE DESCRIPTION		VD-2
TYPE OF BRAKES (1) DRUM, ALL WHEELS (2) DISC, FRONT WHEELS (3) DISC, ALL WHEELS (9) UNKNOWN	<div style="text-align: center;">2 68</div>	WHEELBASE (cm) (999) Unknown <div style="text-align: center;">271 76 77 78</div>
BRAKE ANTI-LOCK DEVICE (0) NONE INSTALLED (1) TWO-WHEEL (2) FOUR-WHEEL (7) EQUIPPED, UNKNOWN WHEELS (9) UNKNOWN	<div style="text-align: center;">2 69</div>	PLASTIC ANTI-LACERATIVE INNER LAYER GLASS EQUIPPED (0) NONE (1) WINDSHIELD (2) WINDSHIELD AND SIDE (7) OTHER (9) UNKNOWN <div style="text-align: center;">Ø 79</div>
AIR CONDITIONING IN VEHICLE (0) NO (1) YES (8) NOT COLLECTED (9) UNKNOWN	<div style="text-align: center;">8 70</div>	
TYPE OF DRIVE (1) REAR WHEEL (2) FRONT WHEEL (3) FOUR WHEEL (4) ALL WHEEL DRIVE (9) UNKNOWN	<div style="text-align: center;">2 71</div>	FIELD INVESTIGATOR INSTRUCTIONS: 1. <u>INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.</u> 2. <u>ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE.</u> 3. <u>ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR.</u> 4. <u>ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.</u> EXAMPLES: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>FRONT OR REAR</p> </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>SIDE</p> </div> <div style="text-align: center;">  <p>ROOF (REFERENCE TO TOP OF DOOR SILL OR WINDOW SILL)</p> </div> </div>
DUAL REAR WHEELS (0) NO (1) YES (9) UNKNOWN	<div style="text-align: center;">Ø 72</div>	
ORIGINAL TYPE OF RESTRAINT SYSTEM (1) ACTIVE BELT (2) PASSIVE BELT (3) AIRBAG (4) KNEE BOLSTERS (7) OTHER: (8) NOT APPLICABLE (NOT EQUIPPED) (9) UNKNOWN	<div style="text-align: center;">3 73</div>	
EQUIPPED WITH ROLL BAR (0) NO (1) YES (9) UNKNOWN	<div style="text-align: center;">Ø 74</div>	
TYPE OF ROOF (0) NONE (1) SOLID (2) T-TOP CLOSED (3) T-TOP OPEN (4) SUN ROOF CLOSED (5) SUN ROOF OPEN (6) CONVERTIBLE CLOSED (7) CONVERTIBLE OPEN (8) OTHER: (9) UNKNOWN	<div style="text-align: center;">1 75</div>	

Duplicate columns 1-8
from the previous card.Module V D Format 0 2
9 10 11 12

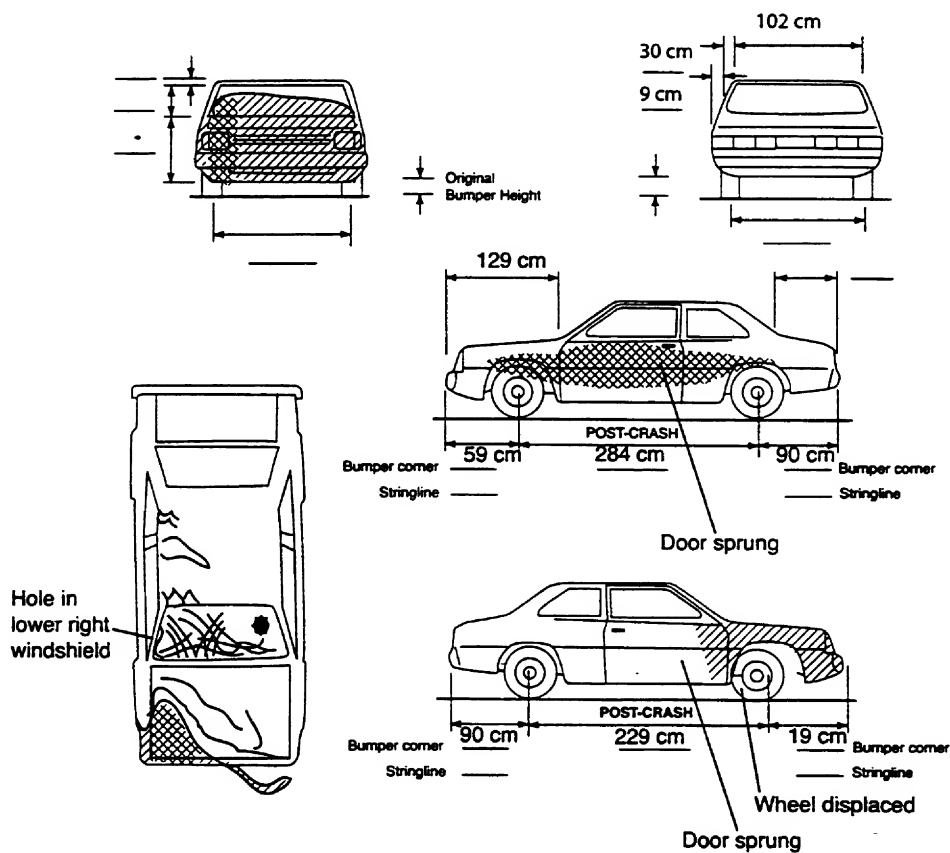
VEHICLE DESCRIPTION VD-3

ORIGINAL SPECIFICATIONS

Wheelbase	<u>271</u> cm	Front Overhang	<u>101</u> cm
Curb Weight	<u>1394</u> kg	Rear Overhang	<u>101</u> cm
Average Track Width	<u>150</u> cm	Undeformed End Width (UEW)	<u>150</u> cm
Overall Length	<u>473</u> cm	Engine Displacement	<u>3.4</u> L
Overall Width (OAW)	<u>179</u> cm	Engine: # of Cylinders	<u>06</u>

VEHICLE DAMAGE

MEASUREMENTS IN CENTIMETERS



FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL)

999 cmFront-End Overlap (Percent) = $\frac{DDL}{UEW}$ 99 %Vehicle Overlap (Percent) = $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$ 99 %

Duplicate columns 1-8
from the previous card.

Module D A Format 0 2
9 10 11 12

DAMAGE DA-1

PRIMARY	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	2	
IMPACT SPEED (km/h)	999	998
ESTIMATED BY	1	1
CRUSH (cm)	116	998
CDC #1	12.FREN.5	98.00000.0
CDC #2	98.00000.0	98.00000.0

Duplicate columns 1-8
from the previous card.

Module D A Format 0 3
9 10 11 12

SECONDARY	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	1	
IMPACT SPEED (km/h)	999	998
ESTIMATED BY	1	1
CRUSH (cm)	014	998
CDC #1	12LDES.2	98.00000.0
CDC #2	98.00000.0	98.00000.0

CODES

EVENT NUMBER

- (8) NOT APPLICABLE
(9) UNKNOWN

IMPACT SPEED

- (998) NOT APPLICABLE
(999) UNKNOWN

IMPACT SPEED ESTIMATOR

- (1) INVESTIGATOR
(2) DRIVER
(3) POLICE
(4) "CRASH" PROGRAM
(5) OTHER COMPUTER PROGRAM
SPECIFY: _____
(7) OTHER: _____
(8) NOT APPLICABLE
(NO VEHICLE/NO IMPACT)

CRUSH

- (998) NOT APPLICABLE
(NO VEHICLE/DAMAGE)
(999) UNKNOWN

CDC

- (9800000) NOT APPLICABLE
(9900000) UNKNOWN

Duplicate columns 1-8
from the previous card.Module D A Format 0 1
9 10 11 12

DAMAGE DA-2

MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT 116
13 15RIGHT SIDE 000
16 18REAR 000
19 21LEFT SIDE 014
22 24ROOF 000
25 27OTHER 000
28 30CHRONOLOGICAL SEQUENCE
OF DAMAGE/INJURY PRODUCING CRASH EVENTS
FOR CASE VEHICLENOTE: IF CHRONOLOGICAL ORDER
IS UNKNOWN, EVENT
ORDER IS OPTIONAL.DO YOU KNOW THIS TABLE
TO BE IN CHRONOLOGICAL ORDER?1
31(0) NO
(1) YES

EVENT NUMBER	IMPACT LOCATION (1) ON ROADWAY (2) SHOULDER/MEDIAN/GORE (3) ON ROADSIDE (4) OUTSIDE ROADSIDE RIGHT-OF-WAY (5) OTHER (6) OFF ROADWAY, LOC. UNK. (9) UNKNOWN	IMPACT CONFIGURATION FOR CODES, SEE TABLE ON PAGE DA-3.	OBJECT/VEHICLE CONTACTED FOR CODES, SEE TABLE ON PAGE DA-4.
# 1	<u>3</u> 32	<u>27</u> 34	<u>77</u> 36
#2	<u>3</u> 37	<u>17</u> 39	<u>77</u> 41
#3	— 42	— 44	— 46
#4	— 47	— 49	— 51
#5	— 52	— 54	— 56
#6	— 57	— 59	— 61
#7	— 62	— 64	— 66

DAMAGE DA-3

CODES FOR
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDESWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDESWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

UNKNOWN

- (99) IMPACT TYPE UNKNOWN

DAMAGE DA-4

CODES FOR VEHICLE/OBJECT CONTACTED

VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT

- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

SIZEWHEELBASE

SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

- MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (MINI)
- (12) PICKUP
- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",
E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",
E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (OR WITH SIDECAR)

SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING
ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM
OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE
MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8
from the previous card.Module C R Format 0 1
9 10 11 12CRASH RECONSTRUCTION CR-1
for ΔV

	CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT	
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE
EVENT NUMBER	<u>2</u> 13		<u>1</u> 47	
ΔV (km/h) TOTAL	<u>071</u> 14 15 16	<u>888</u> 32 33 34	<u>999</u> 48 49 50	<u>888</u> 66 67 68
LONGITUDINAL*	<u>-071</u> 17 20	<u>8888</u> 35 38	<u>9999</u> 51 54	<u>8888</u> 69 72
LATERAL*	<u>+000</u> 21 24	<u>8888</u> 39 42	<u>9999</u> 55 58	<u>8888</u> 73 76
*NOTE: THESE ΔV COMPONENTS MUST INCLUDE SIGN.				
EXAMPLES: 10 km/h = <u>+010</u> -7 km/h = <u>-007</u>				
ENERGY DISSIPATED BY CRUSH (kj)	<u>0317</u> 25 28	<u>8888</u> 43 46	<u>9999</u> 59 62	<u>8888</u> 77 80
RECONSTRUCTION	<u>317145</u>			
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>22</u> 29 30		<u>08</u> 63 64	
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL				
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL				
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL				
NOT RECONSTRUCTED BECAUSE				
(02) INSUFFICIENT DATA				
(03) EXCESSIVE UNDERRIDE/ OVERRIDE				
(04) ROLLOVER				
(05) VAULTING				
(06) OTHER TRAVEL IN MORE THAN ONE PLANE				
(07) NON-HORIZONTAL FORCE				
(08) SIDESWIPE-TYPE DAMAGE				
(09) YIELDING OBJECT				
(10) OTHER:				
(11) AT LEAST ONE VEHICLE BEYOND SCOPE				
(12) OTHER VEHICLE NOT INSPECTED				
MODE				
(1) CDC ONLY				
(2) CDC & DETAILED DAMAGE	<u>2</u> 31		<u>5</u> 65	
(3) TRAJECTORY & CDC				
(4) TRAJECTORY & CDC & DETAILED DAMAGE				
(5) NOT RECONSTRUCTED				
COMPUTER PROGRAM SPECIFY: _____				

Duplicate columns 1-8
from the previous card.

Module C R Format 0 2
9 10 11 12

CRASH RECONSTRUCTION CR-2
for EBS

	CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT	
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE
EVENT NUMBER	<u>2</u> 13		<u>1</u> 47	
EBS (km/h) TOTAL	<u>071</u> 14 15 16	<u>888</u> 32 33 34	<u>999</u> 48 49 50	<u>888</u> 66 67 68
LONGITUDINAL*	<u>-071</u> 17 20	<u>8888</u> 35 38	<u>9999</u> 51 54	<u>8888</u> 69 72
LATERAL*	<u>+000</u> 21 24	<u>8888</u> 39 42	<u>9999</u> 55 58	<u>8888</u> 73 76
*NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.				
EXAMPLES: 10 km/h = <u>± 010</u> -7 km/h = <u>- 007</u>				
ENERGY DISSIPATED BY CRUSH (kj)	<u>0317</u> 25 28	<u>8888</u> 43 46	<u>9999</u> 59 62	<u>8888</u> 77 80
RECONSTRUCTION				
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>22</u> 29 30		<u>08</u> 63 64	
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL				
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL				
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL				
NOT RECONSTRUCTED BECAUSE				
(02) INSUFFICIENT DATA				
(03) EXCESSIVE UNDERRIDE/ OVERRIDE				
(04) ROLLOVER				
(05) VAULTING				
(06) OTHER TRAVEL IN MORE THAN ONE PLANE				
(07) NON-HORIZONTAL FORCE				
(08) SIDESWIPE-TYPE DAMAGE				
(09) YIELDING OBJECT				
(10) OTHER: _____				
(11) AT LEAST ONE VEHICLE BEYOND SCOPE				
(12) OTHER VEHICLE NOT INSPECTED				
MODE				
(1) CDC ONLY	<u>2</u> 31		<u>5</u> 65	
(2) CDC & DETAILED DAMAGE				
(3) TRAJECTORY & CDC				
(4) TRAJECTORY & CDC & DETAILED DAMAGE				
(5) NOT RECONSTRUCTED				
COMPUTER PROGRAM SPECIFY: _____				

Duplicate columns 1-8
from the previous card.Module C R Format 0 3
9 10 11 12

CRASH RECONSTRUCTION CR-3

NOTES: 1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR
IMPACTS, REAR TO FRONT IN SIDE IMPACTS.3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.

4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

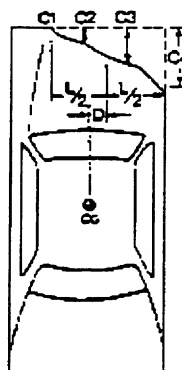
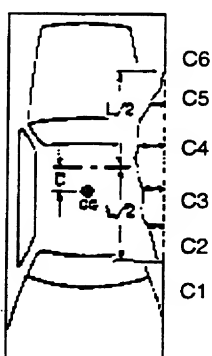
LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L
1	Ends -33cm from rear axle	
2	Ends -94cm from \odot front bumper corner	B.C. to B.C.

PLANE:

- (1) Bumper
(2) Above Bumper
(3) Sill
(4) Above Sill
(5) Other _____
(9) Unknown

DL 37UDL 113

CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card).

Duplicate columns 1 - 12 for each completed line.

Specific Impact Number	Plane of Impact C-Measur.	Direct Damage		Field L	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	±D
		Length (DDL)	Max Crush								
2	Bumper	37	C6	63	29	43	75	107	115	124	+38
	- Freespace				-8	-2	-1	-1	-2	-8	
					21	41	74	106	113	116	
1	1	037	116	063	021	041	074	106	113	116	+038
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45
1	Above Sill	325	14	unk	unk	unk	unk	unk	unk	unk	-5
2	4	325	014	999	999	999	999	999	999	999	-005

**Duplicate columns 1-8
from the previous card.**

Module C R Format 0 4
9 10 11 12

CRASH RECONSTRUCTION CR-4

NOTES:

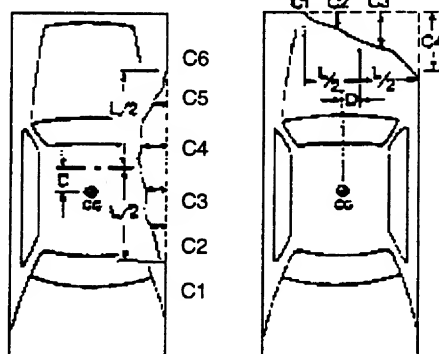
1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
2. MEASURE C_1 TO C_6 FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
3. D IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
4. USE THE CENTER OF THE WHEELBASE AS THE CG.

OTHER VEHICLE LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L

N/A



DL _____

UDL

PLANE:

- (1) Bumper
(2) Above Bumper
(3) Sill
(4) Above Sill
(5) Other _____
(9) Unknown

CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

[illegible]

Duplicate columns 1-8
from the previous card.Module W T Format 0 1
9 10 11 12

WHEELS AND TIRES

WT-1

WHEELS--DAMAGED

- (0) NO
(1) YES
(9) UNKNOWN

LF 0
13
RF 1
RR 0
LR 0
16

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P 21560SR15
25
RF P 21560SR15
35
RR P 21560SR15
45
LR P 21560SR15
55

TIRE TREAD TYPE

- (1) REGULAR
(2) SNOW
(3) SLICKS
(4) ALL WEATHER (MS)
(7) OTHER: _____
(9) UNKNOWN

LF 4
17
RF 4
RR 4
LR 4
20

CARCASS CONSTRUCTION

- (1) BIAS
(2) BELTED BIAS
(3) RADIAL
(4) ELLIPTICAL
(5) HI PRESSURE SPARE
(6) SPACE SAVER SPARE
(7) OTHER: _____
(9) UNKNOWN

LF 3
21
RF 3
RR 3
LR 3
24

IF VEHICLE IS EQUIPPED WITH DUAL
WHEELS, COMPLETE FOR OUTER WHEELS
AND MAKE NOTES ON INNER WHEELS.

NOTES: _____

Duplicate columns 1-8
from the previous card.

Module F T Format 0 1
9 10 11 12

FUEL AND FUEL TANKS FT-1

TYPE OF PROPULSIVE FUEL

- (1) GASOLINE
- (2) DIESEL OIL
- (3) LPG
- (4) ELECTRIC
- (7) OTHER: _____
- (9) UNKNOWN

1
13

AUXILIARY TANK TYPE

- (1) OEM TANK
- (2) AFTER MARKET TANK
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

8
21

MAIN TANK LOCATION

322
14 16

AUXILIARY TANK LOCATION

888
22 24

MAIN FILLER CAP LOCATION

133
17 19

AUXILIARY FILLER CAP LOCATION

888
25 27

MAIN TANK MATERIAL

1
20

AUXILIARY TANK MATERIAL

8
28

TANK AND FILLER CAP LOCATION CODES

FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F L Format 0 1
9 10 11 12

FUEL LEAKAGE FL-1

DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.

(1) YES COMPLETE PAGE.

Φ
13

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u> </u> <u> </u> 14 15	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 21
#2	<u> </u> <u> </u> 22 23	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 29
#3	<u> </u> <u> </u> 30 31	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 37
#4	<u> </u> <u> </u> 38 39	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 45
#5	<u> </u> <u> </u> 46 47	<u> </u>	<u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u> 53

I LEAKING COMPONENT

TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-EEC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN

- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) RUPTURED
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

V LOCATION OF LEAK

FIRST DIGIT
(LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL
- (2) P, BETWEEN COWL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F, & P
- (5) Z, P, & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

SECOND DIGIT
(LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module F R Format 0 1
9 10 11 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.

(1) YES COMPLETE PAGE.

13

DID FIRE START IN CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

14

SEVERITY OF FIRE DAMAGE

- (1) MINOR
(2) MODERATE
(3) SEVERE
(9) UNKNOWN

16

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE
(2) SLOW/MODERATE
(9) UNKNOWN

15

DID AN INJURY TO CASE
VEHICLE OCCUPANT RESULT FROM
FIRE IN OR ON CASE VEHICLE?

- (0) NO
(1) YES
(9) UNKNOWN

17

PROVIDE NOTES IF FIRE OCCURRED.

Duplicate columns 1-8
from the previous card.

Module E D Format 0 1
9 10 11 12

EXTERIOR DAMAGE

ED-1

HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (0) NO
(1) YES
(8) NOT APPLICABLE
(9) UNKNOWN

HOOD LATCH(ES) -RELEASED

-DAMAGED

-JAMMED

HOOD HINGES -LEFT, DAMAGED

-LEFT, SEPARATED
(COMPLETE)

-RIGHT, DAMAGED

-RIGHT, SEPARATED
(COMPLETE)

HOOD REMAINED ON VEHICLE

REAR EDGE OF HOOD -ELEVATED

-CONTACTED WINDSHIELD

-PENETRATED WINDSHIELD

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE
(2) COWL AREA
(3) SIDE
(8) NOT APPLICABLE
(9) UNKNOWN

STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE
(1) FLEXIBLE MATERIAL
(2) POT
(3) SINGLE U-JOINT
(4) DOUBLE U-JOINT
(5) FLEXIBLE CABLE
(6) COMBINATION OF ABOVE
(CIRCLE EACH)
(7) OTHER: _____
(8) EQUIPPED, TYPE UNKNOWN
(9) UNKNOWN, IF EQUIPPED

COUPLING -DAMAGED

(USE CODES
FROM HOOD
PERFORMANCE)

-SEPARATED
(COMPLETE)

ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED
(01) - (07) SEE UNITS ON PAGE ED-2
(88) NOT COLLECTED
(97) OTHER: _____
(98) EQUIPPED, TYPE UNKNOWN
(99) UNKNOWN IF EQUIPPED

ORIGINAL LENGTH (mm)

F (OR H): _____

TELESCOPED LENGTH (mm)

G: _____

DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (888) NOT COLLECTED
(991) NOT MEASURED/NO
COMPRESSION
(992) COMPRESSED, AMOUNT
UNKNOWN
(993) DEVICE EXTENDED
(997) UNABLE TO BE MEASURED
(998) NOT APPLICABLE (NOT
EQUIPPED)
(999) UNKNOWN

ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (0) NO
(1) YES
(9) UNKNOWN

EXTERIOR DAMAGE

ED-2

LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

8
 34

LEFT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO
 (1) YES
 (4) NO SEPARATION, BUT DAMAGED
 (8) NOT APPLICABLE (NOT EQUIPPED)
 (9) UNKNOWN

-A-PILLAR, UPPER

0
 35

LOWER

0
 36

-B-PILLAR, UPPER

0
 37

LOWER

1
 38

-C-PILLAR, UPPER

0
 39

LOWER

8
 40

-D-PILLAR, UPPER

8
 41

LOWER

8
 42

LEFT DOORS

HOW DID DOORS
OPEN DURING COLLISION?

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
 (2) DOOR-LATCH SEPARATION
 (3) LATCH-STRIKER SEPARATION
 (4) STRIKER-PILLAR SEPARATION
 (5) BODY DISTORTION
 (6) COMBINATION OF ABOVE
 (CIRCLE EACH)
 (7) OPENED, REASON UNKNOWN

(8) NOT APPLICABLE (NO DOOR)

(9) UNKNOWN

-FRONT

0
 43

-REAR

8
 44

DOORS JAMMED CLOSED-

USE CODES:

- (0) NO
 (1) YES
 (8) NOT APPLICABLE (NO DOOR)
 (9) UNKNOWN

-FRONT

0
 45

-REAR

8
 46

EXTERIOR DAMAGE

ED-3

REAR DOOR

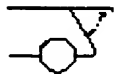
REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)
- (1) HATCHBACK
- (2) ONE-WAY TAILGATE
- (3) TWO-WAY TAILGATE
- (4) CLAMSHELL/DISAPPEARING TAILGATE
- (5) SINGLE DOOR
- (6) DOUBLE DOOR
- (9) UNKNOWN

Hatchback



One-way



Two-way



or



Clamshell



Single door



Double door

HOW DID DOOR
OPEN DURING COLLISION?

- (0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
- (2) DOOR-LATCH SEPARATION
- (3) LATCH-STRIKER SEPARATION
- (4) STRIKER-PILLAR SEPARATION
- (5) BODY DISTORTION
- (6) COMBINATION OF ABOVE
(CIRCLE EACH)
- (7) OPENED, REASON UNKNOWN
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

DOOR JAMMED CLOSED

- (0) NO
- (1) YES
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

47

OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA
DAMAGED DURING COLLISION?

- (0) NO
- (1) YES
- (8) NOT APPLICABLE
- (9) UNKNOWN

50

SPARE TIRE

- (0) NO SPARE TIRE
- (1) NOT ATTACHED BEFORE COLLISION
- (2) ATTACHED, NOT SEPARATED IN COLLISION
- (3) ATTACHED, SEPARATED DUE TO COLLISION
- (8) NOT COLLECTED
- (9) UNKNOWN

51

TRAILER HITCH TYPE

- (0) NO HITCH

BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)
- (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)
- (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)
- (4) LOAD EQUALIZING

OTHER TYPES

- (5) RING-AND-PINTLE
- (6) FIFTH-WHEEL (INCL. P/U)
- (7) OTHER (E.G. CLEVIS-AND-PIN)

- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN IF EQUIPPED

52

TRAILER TYPE
(AT TIME OF COLLISION)

- (0) NO TRAILER
- (1) TRAVEL-TRAILER/CAMPER
- (2) MOBILE HOME
- (3) BOAT/SNOWMOBILE/ATV TRAILER
- (4) UTILITY TRAILER
- (5) TOWED CAR
- (7) OTHER: _____
- (8) TRAILER, TYPE UNKNOWN
- (9) UNKNOWN

53

48

49

EXTERIOR DAMAGE

ED-5

WINDSHIELD DAMAGE

WINDSHIELD CRACKED

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

1
 70

WINDSHIELD BROKEN
(PLASTIC INTERLAYER TORN)

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

1
 71

CRACKED OR BROKEN
BY OCCUPANT CONTACT

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (9) UNKNOWN

1
 72

EXTENT OF BOND SEPARATION

- (0) NONE
 (1) 1 - 20%
 (2) 21 - 40
 (3) 41 - 60
 (4) 61 - 80
 (5) 81 - 99
 (6) TOTAL
 (7) SEPARATED, AMOUNT
 UNKNOWN
 (8) NOT APPLICABLE
 (9) UNKNOWN

⊕
 73

WINDSHIELD MARK ON CASE VEHICLE:

Unknown

WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED
 (98) NOT APPLICABLE (NO WINDSHIELD)
 (99) UNKNOWN

99
 74 75

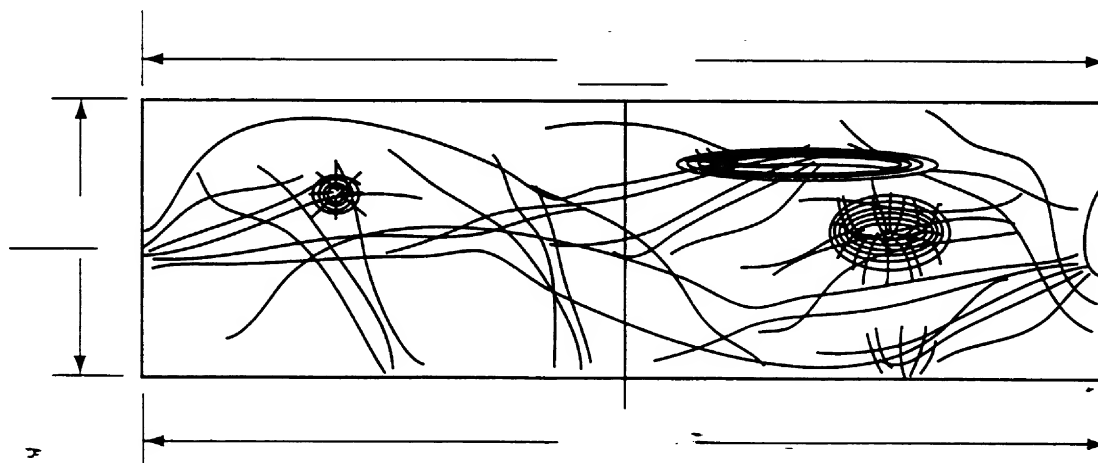
Roof

DID T-ROOF/SUN ROOF OPEN
DURING COLLISION?

- (0) NO
 (1) YES
 (8) NOT APPLICABLE
 (NOT A T-ROOF OR SUN ROOF)
 (9) UNKNOWN

8
 76

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL
 & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



Duplicate columns 1-8
from the previous card.

Module S C Format 0 1
9 10 11 12

STEERING WHEEL AND COLUMN SC-1

STEERING WHEEL

STEERING WHEEL RIM DAMAGE

- (0) NONE
(1) DEFORMED SLIGHTLY
(2) SEVERELY BENT
(3) BROKEN
(9) UNKNOWN

13

NUMBER OF STEERING WHEEL SPOKES

- (9) UNKNOWN

14

STEERING WHL SPOKE DAMAGE

- (0) NONE
(1) DEFORMED SLIGHTLY
(2) SEVERELY BENT
(3) BROKEN
(9) UNKNOWN

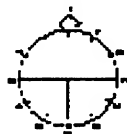
15

STEERING WHEEL POSITION AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE
NORMAL TOP OF THE WHEEL POINTED
WHEN THE COLLISION OCCURRED?

EXAMPLES

O'CLOCK = 12



(NORMAL STRAIGHT
AHEAD)

O'CLOCK = 9



O'CLOCK = 99

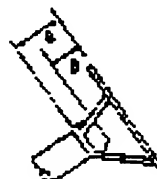
(99) UNKNOWN

STEERING WHEEL ENERGY ABSORBING DEVICE



(1) EXAMPLES:

BARRACUDA, 70 - 74
CHALLENGER, 70 - 74
CAPRI, 71 - 77



(2) EXAMPLES:

OMNI, 78 -
HORIZON, 78 -

STEERING COLUMN OPTIONS

TILT FEATURE

- (0) NOT EQUIPPED
(1) YES, EQUIPPED, UNK POSITION
(2) UP
(3) MIDDLE
(4) LOWER
(9) UNKNOWN IF EQUIPPED

16

SWING-AWAY FEATURE

- (0) NOT EQUIPPED
(1) YES, EQUIPPED
(9) UNKNOWN IF EQUIPPED

17

TELESCOPING FEATURE

- (0) NOT EQUIPPED
(1) YES, EQUIPPED
(9) UNKNOWN IF EQUIPPED

18

TYPE OF DEVICE

- (0) NONE
(1) CONVOLUTED OR MESH CYLINDER
(2) DEEP DISH STEERING WHEEL
(7) OTHER: _____
(8) NOT COLLECTED
(9) UNKNOWN IF EQUIPPED

8
19

ORIGINAL DIMENSION (mm)

A: _____

DAMAGE DIMENSION (mm)

B: _____

DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED
(991) NOT MEASURED/NO APPARENT
COMPRESSION
(992) COMPRESSED, AMOUNT UNKNOWN
(993) DEVICE EXTENDED
(997) UNABLE TO MEASURE
(998) NOT APPLICABLE (NOT EQUIPPED)
(999) UNKNOWN

8 8 8
20 22

STEERING WHEEL AND COLUMN SC-2

STEERING COLUMN ENERGY ABSORBING DEVICE

TYPE OF DEVICE * (IF 27 OR 28)

- (00) NOT EQUIPPED
- (88) NOT COLLECTED
- (99) UNKNOWN

ORIGINAL LENGTH (mm)

C: _____

COMPRESSED LENGTH (mm)

D: _____

BRACKET DEFLECTION (IF CODE 36, 48,
OR 49 ABOVE)

OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE: ± 10)

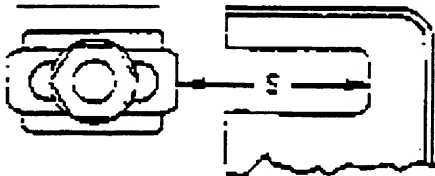
- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT
COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

* (ADD A & B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT & RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT
SEPARATION
- (992) SEPARATED, AMOUNT UNKNOWN
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION
- (1) UPWARD APPARENT ROTATION
- (2) DOWNWARD APPARENT ROTATION
- (9) UNKNOWN

COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION
- (1) LEFT APPARENT ROTATION
- (2) RIGHT APPARENT ROTATION
- (9) UNKNOWN

STEERING WHEEL (CONTINUED)

STEERING WHEEL HUB DAMAGE

- (0) NONE
- (1) OCCUPANT CONTACT
- (2) AIRBAG
- (3) OTHER _____
- (9) UNKNOWN

①
33

$\frac{8}{23}$ $\frac{8}{24}$

$\frac{8}{25}$ $\frac{8}{26}$ $\frac{8}{27}$

$\frac{8}{28}$ $\frac{8}{29}$ $\frac{8}{30}$

$\frac{1}{31}$

$\frac{2}{32}$

1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

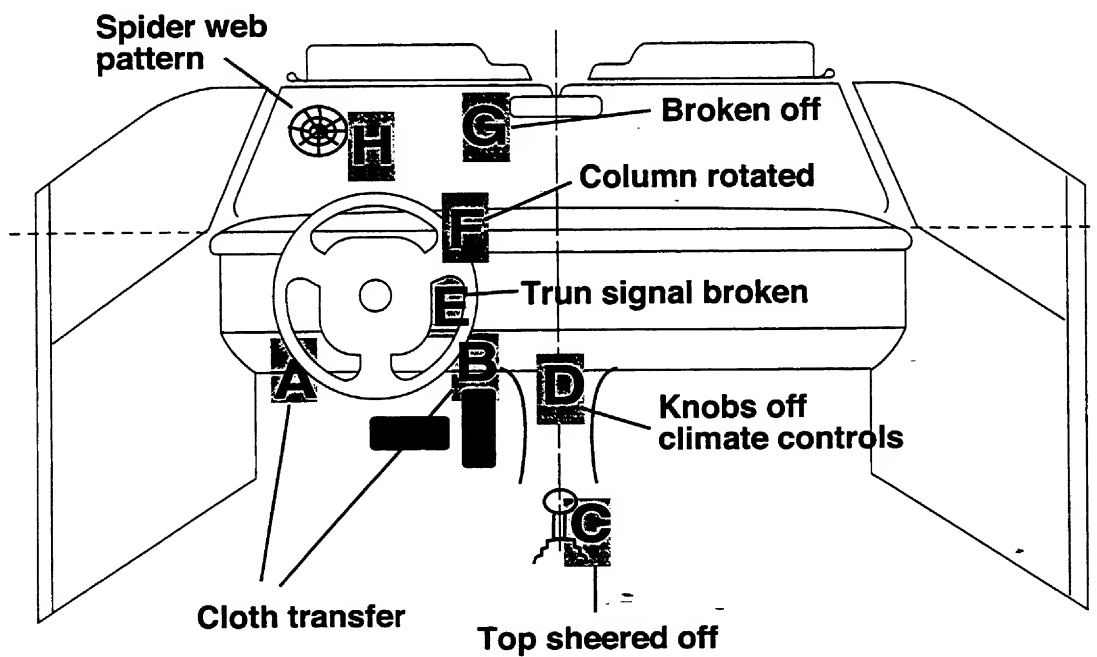
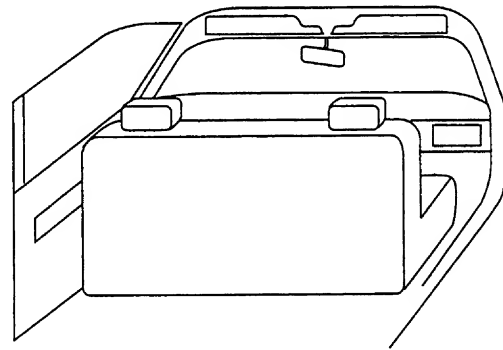
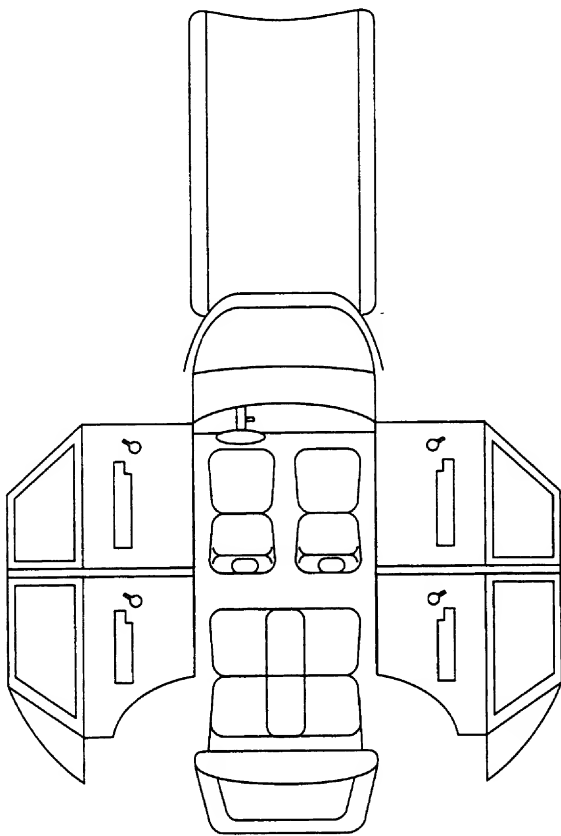
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)				Dominant Crush Direction
		Comparison Value	–	Intruded Value	= Intrusion	
11	Toe pan	140	–	105	= 35	rearward
11	Instrument panel	95	–	85	= 10	rearward
11	Door		–		= 14 (est)	lateral
11	Steering column	74		71	3	rearward
12	Instrument panel	95	–	71	= 24	rearward
13	Instrument panel	98	–	77	= 21	rearward
13	Toe pan	140	–	86	= 54	rearward
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	
			–		=	

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Knee bolster	1	Head	Cloth transfer	1
B	Knee bolster	1	Head	Cloth transfer	1
C	Shift lever	1	Head	Top sheared off	1
D	Center stack	1	Shoulder	Knobs off climate controls	1
E	Turn signal	1	Chest	Broken	3
F	Steering wheel	1	Chest	Column rotated	3
G	Rearview mirror	1	Head	Broken off	2
H	Windshield	1	Hand	Spider web pattern	1
I					
J					

INTRUSION IT-2

VEHICLE OCCUPANT CONTACT DIAGRAM



INTRUSION IT-3

CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- (1) LEFT (3) RIGHT INDIVIDUAL SEAT
- (1) LEFT (2) CENTER (3) RIGHT BENCH: FULL WIDTH 3 PASSENGER
- (1) LEFT (2) LEFT CENTER (6) RIGHT CENTER (3) RIGHT BENCH: FULL WIDTH 4 PASSENGER
- (1) LEFT (2) CENTER (5) RIGHT & BENCH: PARTIAL WIDTH, LEFT AISLE SPACE
- (0) LEFT & SPACE (2) CENTER (5) RIGHT & BENCH: PARTIAL WIDTH, CENTERED SPACE
- (4) ENTIRE VEHICLE WIDTH CARGO AREA

EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR
5 PASSENGERS

X	X	11	13
X	X	X	21 22 23

VAN
12 PASSENGER CAPACITY

X	X	11	13
X	X	X	21 22 25
X	X	X	31 32 35
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
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X	X	X	X
X	X	X	X
X	X	X	X
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X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
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X	X	X	X
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X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X		

CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)
(Y) Y-AXIS (LATERAL)
(Z) Z-AXIS (VERTICAL)

CODES FOR COLUMNS G, H, I & J, OCCUPANT & INJURY NUMBERS

OCCUPANT
NUMBERINJURY
NUMBERCONTACT

(00)

(00)

NO CONTACT

##

(00)

CONTACT, NO INJURY

(97)

(99)

CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN

(99)

(00) OR (99)

UNKNOWN IF CONTACT

INTRUSION IT-4

CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.

INDIVIDUAL COMPONENT

INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (DESCRIBE)
- (26) UNKNOWN INTERNAL SURFACES
- (28) TRANSMISSION TUNNEL (HUMP)
- (29) SIDE FOOTWELL PANEL (KICKPANEL)
- (30) SILL

EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER
COMPARTMENT BUT PART
OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (E.G. SPARE TIRE,
JACK. DESCRIBE.)
- (49) UNKNOWN EXTERNAL OBJECT

GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

USE ONLY IF ALL THESE COMPONENTS
INTRUDED INTO A SINGLE OCCUPANT SPACE.

- (50) WINDSHIELD HEADER
 - A-PILLAR
 - ROOF SIDE RAIL
- (51) INSTRUMENT PANEL
 - A-PILLAR
 - DOOR PANEL
- (52) INSTRUMENT PANEL
 - A-PILLAR
 - WINDSHIELD HEADER
- (53) DOOR PANEL
 - B-PILLAR
 - ROOF RAIL
- (54) DOOR PANEL
 - A-PILLAR
 - ROOF RAIL
- (55) INSTRUMENT PANEL
 - FLOOR PAN
 - A-PILLAR
 - DOOR FRAME
- (56) ROOF RAIL
 - A-PILLAR
 - B-PILLAR
 - WINDOW FRAME
- (57) ROOF RAIL
 - A-PILLAR
 - B-PILLAR
 - C-PILLAR
 - DOOR PANEL
- (58) ROOF
 - ROOF RAIL
 - WINDOW FRAME
 - DOOR PANEL
- (59) BACKLIGHT HEADER
 - ROOF
 - C-PILLAR
 - THIRD SEAT-BACK
- (60) ROOF
 - ROOF RAIL
 - A-PILLAR
 - B-PILLAR
 - C-PILLAR
 - WINDOW FRAME
 - DOOR PANEL
 - FLOOR PAN
- (61) INSTRUMENT PANEL
 - TOE PAN
 - WINDSHIELD HEADER
 - A-PILLAR
 - ROOF RAIL
 - WINDOW FRAME
 - DOOR PANEL
 - ROOF
- (62) ROOF
 - ROOF RAIL
 - C-PILLAR
 - WINDOW FRAME
 - FLOOR PAN
 - SECOND SEAT
 - DOOR PANEL
- (63) ROOF RAIL
 - ROOF
 - B-PILLAR
 - WINDOW FRAME
 - FLOOR PAN
 - DOOR PANEL
 - SECOND SEAT
 - FRONT SEAT
- (64) ROOF RAIL
 - ROOF OR CONVERTIBLE TOP
 - A-PILLAR
 - B-PILLAR
 - WINDOW FRAME
 - WINDOW HEADER
- (65) WINDSHIELD
 - WINDSHIELD HEADER
 - ROOF SIDE RAIL
- (66) WINDSHIELD
 - WINDSHIELD HEADER
 - A-PILLAR
- (98) NOT APPLICABLE
- (99) UNKNOWN

Duplicate columns 1-8
from the previous card.Module 1 1 Format 0 1
9 10 11 12

INTRUSION IT-5

WAS THERE OCCUPANT COMPARTMENT INTRUSION? 1

13

- (0) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.
 (1) YES ANSWER NEXT QUESTION.
 (9) UNKNOWN SKIP PAGE.

WAS INTRUSION CATASTROPHIC? ①

14

- (0) NO COMPLETE PAGE.
 (1) YES SKIP PAGE.

Duplicate columns 1-8
from the previous card.Module 1 1 Format 0 2
9 10 11 12

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
 CODES FOR B, F, G, H, I, J ON PAGE IT-3
 CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 1</u>	<u>11</u>	<u>03</u>	<u>2</u>	<u>35</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 2</u>	<u>11</u>	<u>09</u>	<u>1</u>	<u>00</u>	<u>14</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 3</u>	<u>11</u>	<u>01</u>	<u>2</u>	<u>10</u>	<u>00</u>	<u>00</u>	<u>01</u>	<u>06</u>	<u>01</u>	<u>07</u>
<u>0 4</u>	<u>11</u>	<u>05</u>	<u>2</u>	<u>03</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 5</u>	<u>12</u>	<u>01</u>	<u>2</u>	<u>24</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 6</u>	<u>13</u>	<u>01</u>	<u>2</u>	<u>21</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 7</u>	<u>13</u>	<u>03</u>	<u>2</u>	<u>54</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8
from the previous card.Module 1 1 Format 0 3
9 10 11 12NOTE: IF NO SIDE DOOR INTRUSION,
SKIP REMAINDER OF PAGE.SIDE DOOR INTRUSION
RESULTED FROMINTRUSION
NUMBER CAUSECODES
FOR CAUSE:

02 1
13 15 (1) DIRECT
16 18 IMPACT
19 21 (2) INDUCED
 DAMAGE
 (9) UNKNOWN

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED
DOOR INTRUSION, CODE COMPONENTINTRUSION
NUMBERDAMAGED
COMPONENT 1DAMAGED
COMPONENT 2CODES
FOR COMPONENTSA 02
22 2308
25B
26 27
29C
30 31
33D
34 35
37

- (0) NONE
 (1) A-PILLAR
 (2) B-PILLAR
 (3) C-PILLAR
 (4) LATCH/STRIKER
 (5) HINGES
 (7) OTHER:
 (8) NOT APPLICABLE
 (9) UNKNOWN

Duplicate columns 1-8
from the previous card.

Module 1 T Format 0 2
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).
Duplicate columns 1 - 12 for each completed line.

-- ADDITIONAL PAGE --

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.
CODES FOR B, F, G, H, I, J ON PAGE IT-3
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 8</u>	---	---	---	---	---	---	---	---	---	---
<u>0 9</u>	---	---	---	---	---	---	---	---	---	---
<u>1 0</u>	---	---	---	---	---	---	---	---	---	---
<u>1 1</u>	---	---	---	---	---	---	---	---	---	---
<u>1 2</u>	---	---	---	---	---	---	---	---	---	---
<u>1 3</u>	---	---	---	---	---	---	---	---	---	---
<u>1 4</u>	---	---	---	---	---	---	---	---	---	---
<u>1 5</u>	---	---	---	---	---	---	---	---	---	---
<u>1 6</u>	---	---	---	---	---	---	---	---	---	---
<u>1 7</u>	---	---	---	---	---	---	---	---	---	---
<u>1 8</u>	---	---	---	---	---	---	---	---	---	---
<u>1 9</u>	---	---	---	---	---	---	---	---	---	---
<u>2 0</u>	---	---	---	---	---	---	---	---	---	---
<u>2 1</u>	---	---	---	---	---	---	---	---	---	---
<u>2 2</u>	---	---	---	---	---	---	---	---	---	---
<u>2 3</u>	---	---	---	---	---	---	---	---	---	---
<u>2 4</u>	---	---	---	---	---	---	---	---	---	---
<u>2 5</u>	---	---	---	---	---	---	---	---	---	---

Duplicate columns 1-8
from the previous card.

Module 1 D Format 0 1
9 10 11 12

INTERIOR DAMAGE

ID-1

CODES:

- (0) NO
(1) YES
(3) NO, and OCCUPANT CONTACT

- (4) YES, and OCCUPANT CONTACT
(8) NOT APPLICABLE
(9) UNKNOWN

	LEFT	RIGHT				
SIDES			FRONT		INSTRUMENT PANEL	
FRONT DOOR	<u>3</u> 13	<u>0</u> 14	FOOT CONTROLS	<u>1</u> 45	UPPER PANEL	<u>1</u> 55
FRONT HARDWARE	<u>0</u> 15	<u>0</u> 16	IGNITION KEYS	<u>0</u> 46	MID PANEL	<u>1</u> 56
FRONT ARMREST	<u>0</u> 17	<u>0</u> 18	REAR VIEW MIRROR	<u>4</u> 47	LOWER PANEL	<u>1</u> 57
FRONT GLASS	<u>0</u> 19	<u>0</u> 20	SUNVISOR/FITTINGS	<u>0</u> 48	ASHTRAY	<u>1</u> 58
REAR DOOR AREA	<u>0</u> 21	<u>0</u> 22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES		CONTROL KNOBS & LEVERS	<u>4</u> 59
REAR HARDWARE	<u>0</u> 23	<u>0</u> 24	WINDSHIELD TOP MOLDINGS	<u>1</u> 49	GLOVE COMPARTMENT AREA	<u>1</u> 60
REAR ARMREST	<u>0</u> 25	<u>0</u> 26	LEFT A-PILLAR (UPPER OR LOWER)	<u>0</u> 50	INSTRUMENTS	<u>1</u> 61
REAR GLASS	<u>0</u> 27	<u>0</u> 28	RIGHT A-PILLAR (UPPER OR LOWER)	<u>1</u> 51	PARKING BRAKE RELEASE	<u>1</u> 62
ROOF SIDE RAIL	<u>0</u> 29	<u>0</u> 30	CENTER CONSOLE	<u>4</u> 52	PARKING BRAKE PEDAL	<u>8</u> 63
B-PILLAR	<u>0</u> 31	<u>0</u> 32	TRANSMISSION SELECTOR LEVER	<u>4</u> 53	A/C OR UPPER VENT OUTLETS	<u>1</u> 64
C-PILLAR	<u>0</u> 33	<u>0</u> 34	RIM, HORN, SPOKE	<u>3</u> 54	HEATER OR A/C DUCTS	<u>1</u> 65
D-PILLAR	<u>0</u> 35	<u>0</u> 36			RADIO	<u>1</u> 66
HEADLINING	<u>0</u> 37	<u>0</u> 38			OTHER: * _____	<u>8</u> 67
ROOF STRUCTURE	<u>0</u> 39	<u>1</u> 40				
T-ROOF/SUN ROOF	<u>0</u> 41	<u>0</u> 42				
OTHER: * _____	<u>0</u> 43	<u>0</u> 44				
					REAR	
					WINDOW	<u>0</u> 68
					WINDOW HEADER	<u>0</u> 69
					CONSOLES	
					VERTICAL	<u>4</u> 70
					ROOF	<u>0</u> 71

* MORE THAN ONE ITEM MAY BE NOTED.

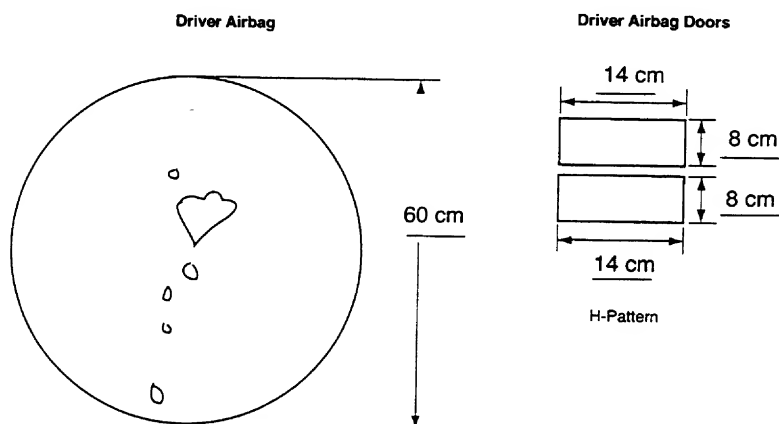
Duplicate columns 1-8 from the previous card.		Module <u>S</u> <u>T</u> 9 10		Format <u>0</u> <u>2</u> 11 12		SEATS		ST-1			
FRONT SEAT		DRIVER		PASSENGER		FRONT SEAT-BACK		DRIVER		PASSENGER	
TYPE OF FRONT SEAT (00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN		<u>05</u> 13 14		<u>05</u> 15 16		SEAT-BACK TYPE (1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 30		<u>1</u> 31	
TYPE OF SEAT MOUNT (1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 17		<u>1</u> 18		SEAT-BACK LOCK TYPE (0) NONE (1) MANUAL (2) INERTIA (3) POWER (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 32		<u>1</u> 33	
SWIVEL MECHANISM EQUIPPED (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 19		<u>0</u> 20		LOCKS HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 34		<u>1</u> 35	
ORIGINAL EQUIPMENT SEATS (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 21		<u>1</u> 22		RECLINER MECHANISM HELD (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 36		<u>1</u> 37	
CONTACT OF SEAT BY REAR OCCUPANT (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 23		<u>8</u> 24							
FRONT SEAT DAMAGE (0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 25		<u>0</u> 26		HEAD RESTRAINT HEAD RESTRAINT TYPE (0) NONE (1) ADJUSTABLE (2) INTEGRAL (3) NOT INTEGRAL, BUT CANNOT BE REMOVED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 38		<u>1</u> 39	
CENTER ARMREST DAMAGED (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED		<u>0</u> 27				REMOVED PRE-CRASH (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 40		<u>0</u> 41	
FRONT SEAT ROTATION (0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (3) LEFT APPARENT (4) RIGHT APPARENT (5) MULTIPLE ROTATIONS SPECIFY _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 28		<u>0</u> 29		ADJUSTMENT AT CRASH (1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN		<u>2</u> 42		<u>2</u> 43	
						HEAD RESTRAINT DAMAGE (0) NONE (4) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 44		<u>0</u> 45	

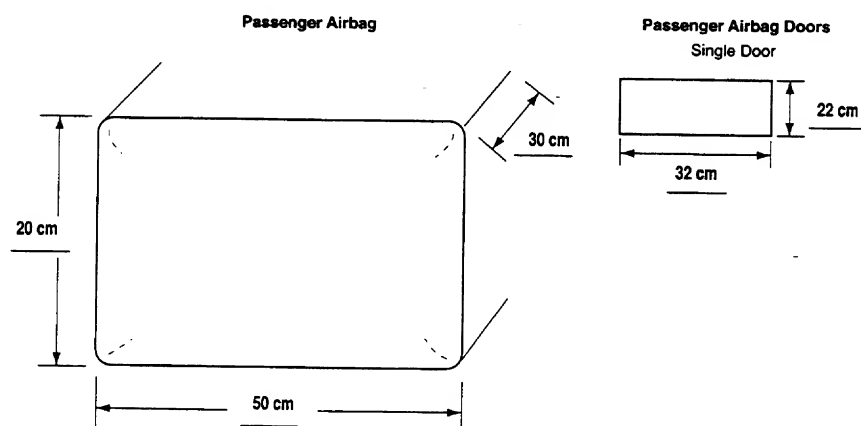
SEATS ST-2					
FRONT SEAT ADJUSTMENT SEAT ADJUSTMENT TYPE (0) NONE (RIGID) (1) MANUAL (2) POWER (7) OTHER: _____ (8) NOT APPLICABLE (NO SEAT) (9) UNKNOWN ADJUSTMENT PROVIDED (1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN SEAT ADJUSTER DAMAGE (0) NONE (1) CHUCKING (FREE PLAY) (2) DEFORMED (RELEASED/JAMMED) (3) SEPARATED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN SEAT ADJUSTER SEPARATION (0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN PRE-CRASH POSITION (1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN	DRIVER 2 46	PASSENGER 1 47	SECOND SEAT (CONT.) CENTER ARMREST DAMAGED (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	8 60	
	2 48	2 49	SECOND SEAT-BACK LOCKS FOR THE FOLLOWING, USE: (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN LEFT OR CENTER, EQUIPPED LEFT OR CENTER, HELD (3) SEAT FOLDED DOWN RIGHT, EQUIPPED RIGHT, HELD (3) SEAT FOLDED DOWN	LEFT 8 61 8 63 8 65 8 67	RIGHT 8 62 8 64 8 66 8 68
	8 52	8 53	THIRD SEAT EQUIPPED BACKREST DAMAGED CUSHION DAMAGED	0 69 8 71 8 73	0 70 8 72 6 74
	3 54	3* 55	VEHICLE EQUIPPED WITH REAR HEAD RESTRAINTS (0) NOT EQUIPPED (OR REMOVED) (1) EQUIPPED (2) EQUIPPED & DAMAGED (8) NOT APPLICABLE (NO REAR SEAT) (9) UNKNOWN <i>Applies to any rear-seat position</i>	0 75	
SECOND SEAT TYPE OF SECOND SEAT (0) NONE (1) NON-FOLDING (2) FOLDING (3) CAPTAIN'S CHAIR (4) JUMP SEAT (5) INTEGRAL CHILD SEAT (6) LUGGAGE AREA ACCESS PANEL (9) UNKNOWN SECOND SEAT DAMAGE (0) NONE (1) BACKREST ONLY (DAMAGED OR LOOSENED) (2) CUSHION ONLY (DAMAGED OR LOOSENED) (3) BACKREST & CUSHION (DAMAGED OR LOOSENED) (4) INTEGRAL CHILD SEAT (PRIORITY CODE) (5) LUGGAGE AREA ACCESS PANEL (DAMAGED OR LOOSENED) (8) NOT APPLICABLE (9) UNKNOWN	LEFT 6 56	RIGHT 6 57	slightly forward of full rear		

Duplicate columns 1-8
from the previous card.Module A B Format 0 1
9 10 11 12

AIRBAG AB-1

DRIVER SIDE		PASSENGER SIDE	
LOCATION OF AIRBAG STEERING WHEEL EQUIPPED (0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED DEPLOYED (0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<u>1</u> 13 <u>1</u> 14	LOCATION OF AIRBAG INSTRUMENT PANEL (GLOVE BOX) EQUIPPED (0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED DEPLOYED (0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<u>1</u> 16 <u>1</u> 17
CONDITION OF AIRBAG STEERING WHEEL (0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION	<u>0</u> 15	CONDITION OF AIRBAG INSTRUMENT PANEL (GLOVE BOX) (0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION	<u>0</u> 18
DRIVER SIDE AIRBAG STEERING WHEEL TETHER <i>2 straps</i> (0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED MARKED BY CONTACT (0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<u>1</u> 19 <u>0</u> 20	PASSENGER SIDE AIRBAG INSTRUMENT PANEL (GLOVE BOX) TETHER (0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED MARKED BY CONTACT (0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN	<u>0</u> 21 <u>0</u> 22

AIRBAG AB-2**AIRBAG NUMBER ON DRIVER SIDE:**NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:
 Vents: ☒ Y ☐ N
 if yes, how many: 2

 Tethers: ☒ Y ☐ N
 if yes, how many: 2
AIRBAG NUMBER ON PASSENGER SIDE:NOTE AND DESCRIBE ANY AIRBAG CONTACT OR
DAMAGE ON DIAGRAM BELOW:
 Vents: Y ☒ N
 if yes, how many: _____

 Tethers: Y ☒ N
 if yes, how many: _____

NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,
ARE TO BE FILLED IN
FOR EACH CASE VEHICLE OCCUPANT,
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,
USE ADDITIONAL COPIES
OF PAGES OC-1, OC-2, OC-3,
AND IC-2 TO DESCRIBE THEM
AND ATTACH THE COPIES TO THIS REPORT.

Duplicate columns 1-8
from the previous card.

Module 0 C Format 0 2
9 10 11 12

OCCUPANT INFORMATION OC-1

OCCUPANT IDENTIFICATION

OCCUPANT NUMBER

01
13 14

ROLE OF OCCUPANT AT 1ST IMPACT

- (1) MOTOR VEHICLE DRIVER
(2) MOTOR VEHICLE PASSENGER
(NOT DRIVER)
(9) UNKNOWN

1
15

OCCUPANT POSITION

ROW LOCATION

- (1) FRONT
(2) SECOND
(3) THIRD
(4) FOURTH
(7) OTHER: _____
(8) EXTERNAL TO PASSENGER
COMPARTMENT (E.G. BED OF PICKUP)
(9) UNKNOWN

1
16

LATERAL LOCATION

- (1) LEFT
(2) LEFT CENTER
(3) CENTER
(4) RIGHT CENTER
(5) RIGHT
(6) ALL (LYING ON SEAT)
(8) EXTERNAL TO PASSENGER
COMPARTMENT
(9) UNKNOWN

1
17

POSTURE

- (10) SITTING ON SEAT
(11) SITTING ON SEAT IN ABNORMAL
POSITION (E.G. FEET ON DASH,
SIDEWAYS)
(12) SITTING ON CONSOLE
(20) ON LAP OR IN ARMS
(30) STANDING ON SEAT
(40) STANDING ON FLOOR
(47) STANDING, EXTERNAL TO
PASSENGER COMPARTMENT
(50) IN BASSINET
(60) IN CHILD SEAT
(65) IN CHILD HARNESS
(70) LYING ON SEAT
(80) LYING/SITTING ON PASSENGER
FLOOR
(83) LYING/SITTING ON OTHER
OBJECT IN PASSENGER
COMPARTMENT: _____
(85) ON CARGO FLOOR/FOLDED
SEAT-BACK
(87) LYING/SITTING, EXTERNAL TO
PASSENGER COMPARTMENT
(97) OTHER: _____
(99) UNKNOWN

10
18 19

PHYSICAL DESCRIPTION

AGE IN YEARS

- (00) LESS THAN 1 YEAR
(98) 98 YEARS OR OLDER
(99) UNKNOWN

28
20 21

AGE IN MONTHS

- (00) LESS THAN 1 MONTH
(25) 25 MONTHS OR OLDER
(99) UNKNOWN

25
22 23

MASS (kg)

(999) UNKNOWN

104
24 25 26

HEIGHT (cm)

(999) UNKNOWN

183
27 28 29

SEX

- (1) MALE
(2) FEMALE
(9) UNKNOWN

1
30

MEDICAL CONDITIONS

TREATMENT/MORTALITY

- (00) NONE
(01) FIRST AID AT SCENE
(02) TREATED AT HOSPITAL/CLINIC
BUT NOT ADMITTED
(03) HOSPITALIZED FOR OBSERVATION
LESS THAN 24 HOURS
(04) HOSPITALIZED OVER 24 HOURS
OR FOR SIGNIFICANT TREATMENT
(05) FATAL, DEAD AT SCENE
(06) FATAL, DOA
(07) FATAL, DEAD WITHIN 24 HOURS
(08) FATAL, DEAD 24 HOURS TO
31 DAYS LATER
(09) FATAL, DEAD 31 DAYS TO
1 YEAR LATER
(10) FATAL DEAD WITHIN UNKNOWN
PERIOD
(99) UNKNOWN

04
31 32

INJURY SEVERITY SCORE (ISS)

(99) UNKNOWN

10
33 34

NON-IMPACT MED. CONDITIONS

- (0) NONE
(1) YES, TIME & TYPE UNKNOWN
(2) PRE-CRASH FATAL (CLINICAL
DEATH AT WHEEL)
(3) PRE-CRASH NON-FATAL (E.G.
PRIOR INJURY, STROKE)
(4) PREGNANT
(5) POST-CRASH FATAL (DROWNING)
(6) POST-CRASH NON-FATAL INJURY
(7) OTHER: _____
(8) COMBINATION OF ABOVE
(CIRCLE EACH)
(9) UNKNOWN

0
35

OCCUPANT INFORMATION OC-2

OCCUPANT INFORMATION OC-2			
MEDICAL CONDITIONS (CONT.) POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT (0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO IMPACT (7) NON-FATAL INJURY, SEVERITY UNKNOWN (9) UNKNOWN	<div style="font-size: 2em;">3</div> <div style="font-size: 0.8em;">36</div>	CHILD SEAT TYPE (00) NONE USED (01) YES, USED (02) INTEGRAL, Chrysler Mini-van (88) NOT APPLICABLE (ADULT OR OLDER CHILD) (99) UNKNOWN CHILD SEAT MAKE/MODEL _____ _____ _____	<div style="font-size: 1.5em;">88</div> <div style="font-size: 0.8em;">41 42</div>
RESTRAINT SYSTEM ACTIVE RESTRAINT SYSTEM (0) NONE (1) LAP BELT (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (9) UNKNOWN ACTIVE RESTRAINT SYSTEM USAGE (0) NONE (AVAILABLE BUT NOT USED) (1) LAP BELT ONLY (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (7) IMPROPER USAGE (8) NOT APPLICABLE (NONE AVAILABLE) (9) UNKNOWN PASSIVE RESTRAINT SYSTEM (0) NONE (1) AIRBAG INSTALLED (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS (4) PASSIVE LAP & UPPER TORSO (5) AIRBAG INSTALLED & PASSIVE RESTRAINT (7) OTHER: _____ (9) UNKNOWN PASSIVE RESTRAINT SYSTEM USAGE (0) SYSTEM DEFEATED (1) AIRBAG NOT DEPLOYED (2) AIRBAG DEPLOYED (3) AIRBAG NOT REINSTALLED (4) PASSIVE UPPER TORSO USED (5) PASSIVE LAP & UPPER TORSO USED (6) SYSTEM USED IN MANUAL MODE (7) IMPROPER USAGE (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED) (9) UNKNOWN	<div style="font-size: 2em;">3</div> <div style="font-size: 0.8em;">37</div> <div style="font-size: 1.5em;">⊖</div> <div style="font-size: 0.8em;">38</div> <div style="font-size: 2em;">1</div> <div style="font-size: 0.8em;">39</div> <div style="font-size: 2em;">2</div> <div style="font-size: 0.8em;">40</div>	EJECTION DEGREE OF EJECTION (0) NONE (1) PARTIAL (2) COMPLETE (7) EJECTED, DEGREE UNKNOWN (9) UNKNOWN IF EJECTED AREA OF EJECTION (01) WINDOW, LEFT SIDE (02) WINDOW, RIGHT SIDE (03) WINDOW, REAR (04) DOOR, LEFT SIDE (05) DOOR, RIGHT SIDE (06) DOOR, REAR OR TAILGATE (07) WINDSHIELD (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA (96) EJECTED AREA UNKNOWN (97) OTHER AREA: _____ (98) NOT APPLICABLE (NOT EJECTED) (99) UNKNOWN IF EJECTED	<div style="font-size: 1.5em;">⊖</div> <div style="font-size: 0.8em;">43</div> <div style="font-size: 1.5em;">98</div> <div style="font-size: 0.8em;">44 45</div>
IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW: _____ _____ _____ _____			
HEAD RESTRAINT HEAD RESTRAINT AVAILABLE FOR THIS POSITION (0) NOT EQUIPPED OR REMOVED (1) EQUIPPED (9) UNKNOWN			<div style="font-size: 1.5em;">1</div> <div style="font-size: 0.8em;">46</div>

OCCUPANT INFORMATION OC-3

OCCUPANT EYEWEAR

- (0) NONE
- (1) GLASSES
- (2) CONTACTS
- (3) BOTH GLASSES AND CONTACTS
- (4) OTHER _____
- (8) NOT APPLICABLE
- (9) UNKNOWN

9

47

SOURCE OF INFORMATION

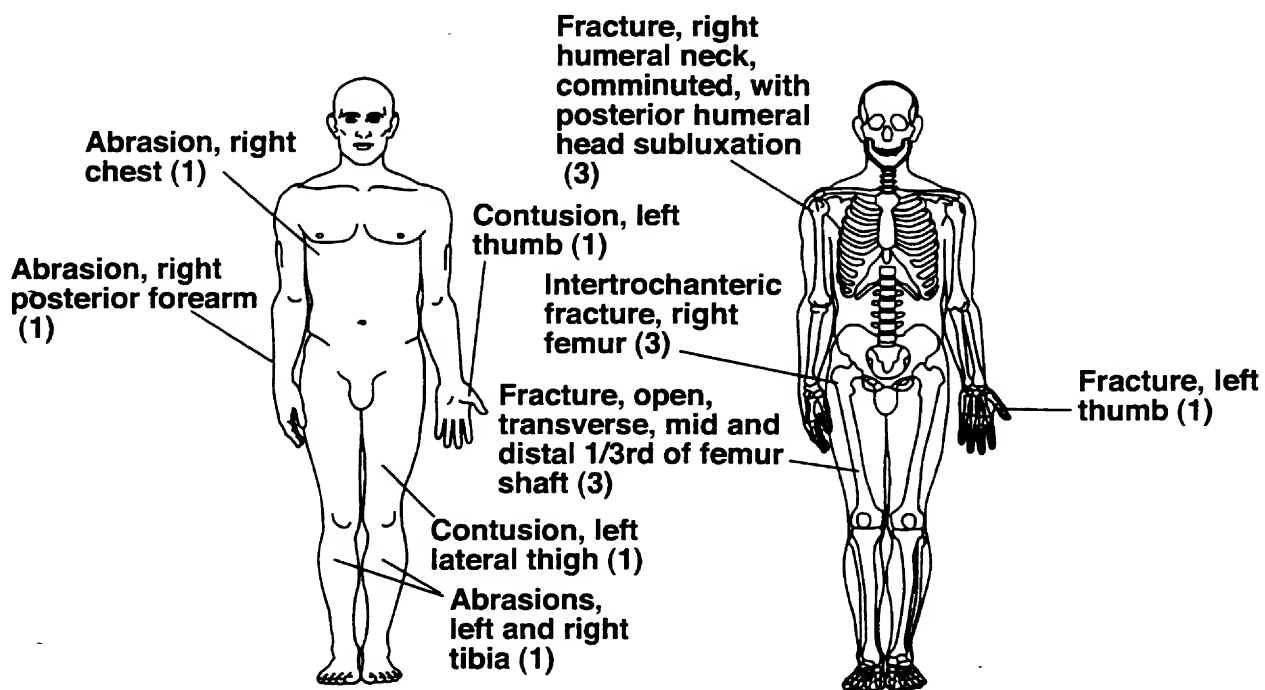
- (0) INTERVIEW
- (1) HOSPITAL
- (2) AUTOPSY
- (3) POLICE
- (4) OTHER _____
- (5) LAY CORONER/EXTERNAL EXAM
- (7) COMBINATION OF ABOVE (CIRCLE)
- (8) NOT APPLICABLE
- (9) UNKNOWN

1

48

OCCUPANT INFORMATION OC-4

INDICATE LOCATION OF INJURIES.



INJURY CLASSIFICATION IC-2

CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (*SPECIFIC AREA UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (AIRBAG)
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)
- (41) UNKNOWN INTERIOR SURFACE

SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (91) KICKPANEL

ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (E.G. *OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (E.G. *OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

PENETRATING OBJECTS

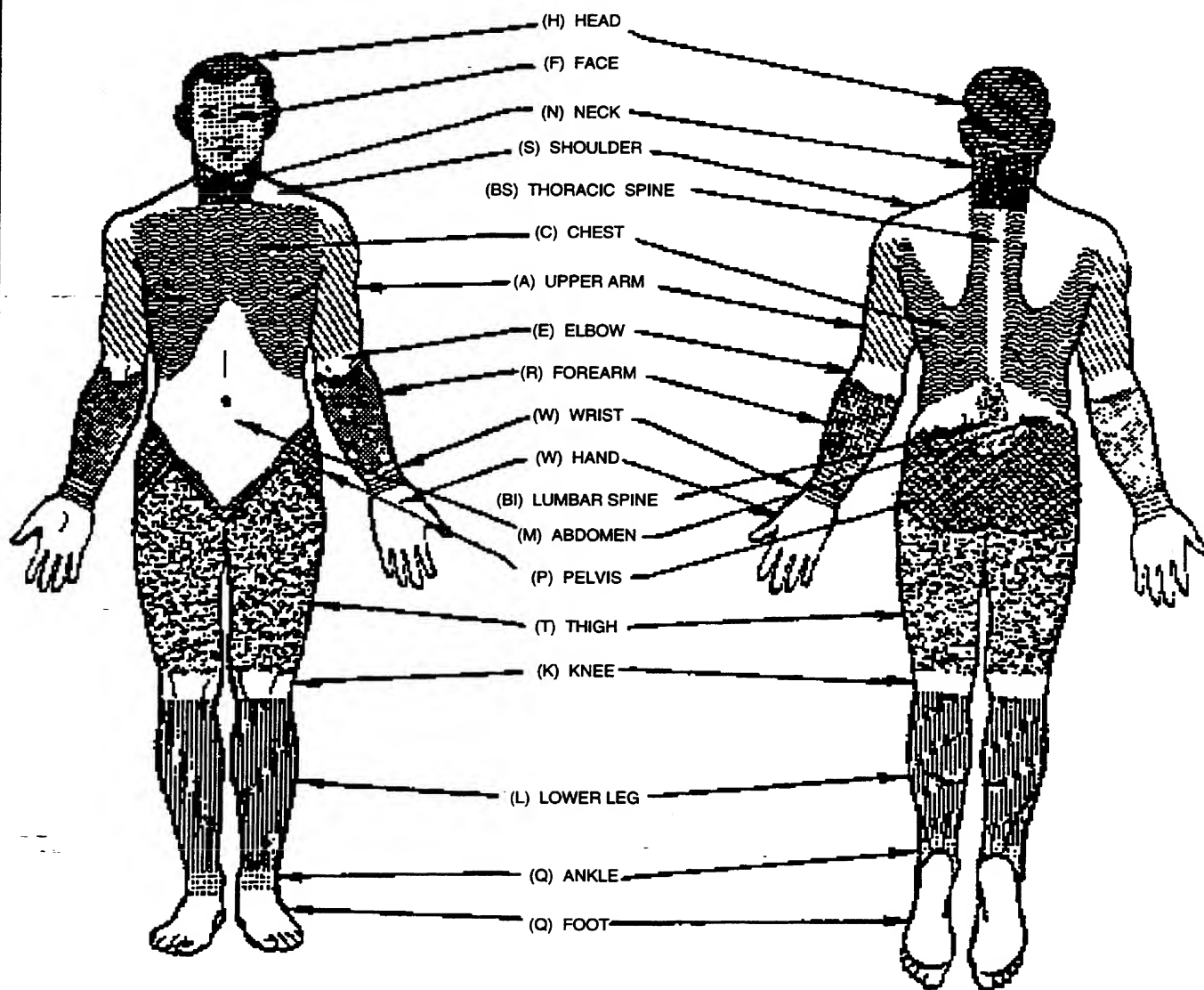
- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

MISCELLANEOUS

- (00) NO CONTACT (*INVALID FIELD FORM CODE*)
- (38) OTHER (E.G. *FIRE. DESCRIBE*)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

INJURY CLASSIFICATION IC-3

THE FIGURE BELOW
IS AN EXPLANATION OF THE BODY REGION CODES
LISTED ON PAGE IC - 4.



INJURY CLASSIFICATION IC-4

CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

1 BODY REGION

(H) HEAD/SKULL
 (F) FACE
 (N) NECK
 (S) SHOULDER
 (X) UPPER EXTREMITIES
 (A) ARM (*UPPER*)
 (E) ELBOW
 (R) FOREARM
 (W) WRIST/HAND
 (C) CHEST
 (M) ABDOMEN
 (B) BACK
 (P) PELVIC/HIP
 (Y) LOWER EXTREMITIES
 (T) THIGH
 (K) KNEE
 (L) LEG (*LOWER*)
 (Q) ANKLE/FOOT
 (O) WHOLE BODY
 (U) UNKNOWN

3 LESION

(L) LACERATION
 (C) CONTUSION
 (A) ABRASION
 (F) FRACTURE
 (P) PERFORATION,
 PUNCTURE
 (K) CONCUSSION
 (V) AVULSION
 (R) RUPTURE
 (S) SPRAIN
 (D) DISLOCATION
 (N) CRUSH
 (M) AMPUTATION
 (B) BURN
 (G) DETACHMENT,
 SEPARATION
 (Z) FRACTURE AND
 DISLOCATION
 (T) STRAIN
 (E) TOTAL SEVERANCE,
 TRANSECTION
 (O) OTHER
 (U) UNKNOWN

4 SYSTEM/ORGAN

(S) SKELETAL
 (V) VERTEBRAE
 (J) JOINTS
 (D) DIGESTIVE
 (L) LIVER
 (N) NERVOUS SYSTEM
 (B) BRAIN
 (C) SPINAL CORD
 (E) EARS
 (O) EYES
 (A) ARTERIES
 (H) HEART
 (Q) SPLEEN
 (G) UROGENITAL
 (K) KIDNEYS
 (R) RESPIRATORY
 (P) PULMONARY/LUNGS
 (M) MUSCLES
 (T) THYROID, OTHER
 ENDOCRINE GLAND
 (I) INTEGUMENTARY (*SKIN*)
 (W) ALL SYSTEMS IN REGION
 (U) UNKNOWN

2 ASPECT

(R) RIGHT
 (L) LEFT
 (B) BILATERAL
 (C) CENTRAL
 (A) ANTERIOR/FRONT
 (P) POSTERIOR/BACK
 (S) SUPERIOR/UPPER
 (I) INFERIOR/LOWER
 (W) WHOLE REGION
 (U) UNKNOWN

BODY REGION	ASPECT	LESION	SYSTEM/ORGAN	SEVERITY
1	2	3	4	5

5 SEVERITY
(OR "AIS", ABBREVIATED INJURY SCALE)

(0) NONE
 (1) MINOR
 (2) MODERATE
 (3) SERIOUS
 (4) SEVERE
 (5) CRITICAL
 (6) MAXIMUM
 (9) UNKNOWN

Age: 30-39
Gender: Female
Ethnicity: White
Marital Status: Married

1. **Task 1:** Read the text and answer the questions.
 2. **Task 2:** Write a short paragraph about the importance of...
 3. **Task 3:** Discuss the role of... in...
 4. **Task 4:** Compare and contrast... and...



Figure 1



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PN 20200 #2



PN 20200 #3



PN 20200 #4
Best Available



PN 20200 #5
Best Available



PN 20200 #6
Best Available



PN 20200 #7
Best Available



PN 20200 #8



PN 20200 #9



PN 20200 #10



PN 20200 #11



PN 20200 #12



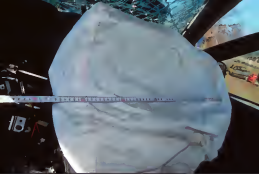
PN 20200 #13
Best Available



PN 20200 #14



PN 20200 #15
Best Available



PN 20200 #16
Best Available



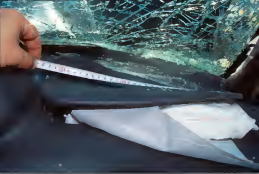
PN 20200 #17
Best Available



PN 20200 #18



PN 20200 #19



PN 20200 #20
Best Available



PN 20200 #21



PN 20200 #22



PN 20200 #23



PN 20200 #24



PN 20200 #25



PN 20200 #26



PN 20200 #27



PN 20200 #26



PN 20200 #29



PN 20200 #30



PN 20200 #31



PN 20200 #32



PN 20200 #33



PN 20200 #34



PN 20200 #35



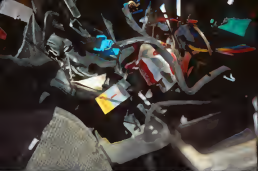
PN 20200 #36



PN 20200 #37



PN 20200 #38



PN 20200 #39



PN 20200 #40



PN 20200 #41



PN 20200 #42



PN 20200 #43

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